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Amendment to the Claims:

1. (Cancelled)
2. (Currently Amended) The ~~medium~~ system of claim ~~[[1]]~~ 5, wherein the facts derived from the demodulated content comprise a name of at least one person who participated in creation of a relevant piece of content.
3. (Currently Amended) The ~~medium~~ system of claim ~~[[1]]~~ 5, wherein the facts derived from content comprise a summary of a relevant piece of content.
4. (Cancelled)
5. (Currently Amended) ~~The medium of claim 4, wherein~~ A data processing system comprising:
 - a demultiplexer which demultiplexes at least visual, audio, and multimedia content and user behavior into data components;
 - 5 one or more content analyzer routines which analyze the demultiplexed data components to derive at least facts from the relevant user experience and behavior;;
 - a store computer routine which stores at least the derived facts, user experience and behavior, other facts and information, and user inputs responsive to
 - 10 user queries into an adaptive memory with a hierarchy of linked index nodes, each node corresponding to a subcategory of information; and
 - a reasoning and fact reconciling computer routine which controls the adaptive memory to create each index node in the hierarchy comprises at least one link to a content node and at least one field for storing weak links to other index
 - 15 nodes, which weak links do not fit into the hierarchy.

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6. (Currently Amended) The medium system of claim [[1]] 5, wherein the facts derived from user behaviors include at least one record of play sequence commands.

7. (Currently Amended) The medium system of claim [[1]] 5, wherein the facts derived from user behaviors include at least one record of presence or absence of the user, [[,]]

8. (Currently Amended) The medium system of claim [[1]] 5, wherein the facts derived from user behaviors include at least one record of queries.

9. (Currently Amended) The medium system of claim [[1]] 5, wherein the adaptive personal memory includes at least one snapshot, which snapshot data acts as a bias toward a longer term view of user behavior.

10. (Currently Amended) A data processing system comprising:

[[.]] at least one medium according to claim 1 a memory with a hierarchy of linked index and content nodes;

[[□]] at least one processor adapted to which perform operations to
5 make the medium memory into a personal adaptive memory, the processor being
programmed with code to perform operations including the following:

[[o]] maintaining adaptive personal memory
embodied in the medium;

10 [[o]] capturing content experienced by the a relevant
user and the relevant user's behaviors;

[[o]] analyzing the content and behaviors to create
updated content and behavior data; and

15 [[o]] updating the adaptive personal memory
embodied in the medium with the updated data;
periodically generating snapshots of user viewed
content and user behavior each in a preceding period since generation
of a prior snapshot;

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analyzing a series of the snapshots to determine user behavior trends and patterns in content experienced by the user.

11. (Currently Amended) The system of claim 10, wherein the operations further comprise interfacing with the ~~relevant user responsive to the adaptive personal memory~~ and to ~~acquire~~ acquiring more data from the ~~relevant~~ user.

12. (Currently Amended) The system of claim 11, wherein interfacing further comprises one or more of

[[*]] retrieving segments of interest from an external source based on the adaptive personal memory;

5 [[*]] augmenting video programs based on the adaptive personal memory;

[[*]] recommending new content based on the adaptive personal memory; and

10 [[*]] creating a personal television channel based on the adaptive personal memory.

13. (Currently Amended) The system of claim 10, wherein analyzing user behaviors includes determining a level of interest in particular content, responsive to one or more of:

5 [[*]] whether or not the content was viewed in detail;

[[*]] what play sequence commands occurred; and

[[*]] what queries were made.

14. (Cancelled)

15. (Original) The system of claim 10, wherein at least one of the maintaining, analyzing, and updating steps makes use of non-monotonic logic.

16. (Original) The system of claim 15, wherein the non-monotonic logic is modal logic.

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17. (Currently Amended) A data processing system comprising
[[*]] ~~the medium of claim 4~~ an adaptive memory with a hierarchy
of linked nodes and weak links outside of the hierarchy;
[[□]] ~~at least one processor adapted to perform operations including~~
5 [[o]] ~~maintaining the medium as a personal~~ which maintains the adaptive memory in
accordance with ongoing user behaviors and content experience[[;]] and by
implementing code for performing operations including:
[[o]] forming at least one query, responsive to the
adaptive memory, for one or more of:
10 gathering additional content, [[;]]
recommending content, [[;]]
augmenting content, [[;]] and
creating a personal television channel;
capturing content experienced by the user and the
15 user's relevant behavior.
analyzing the experienced content, the user behavior,
and responses to the at least one query to create updated data; and,
updating the adaptive memory with the updated data,
the updating and analyzing using modal, non-monotonic logic.

18. (Original) The system of claim 17, wherein the query
comprises seeking out new content having a participant in common with previously
experienced content.

19. (Original) The system of claim 17, wherein the query
comprises seeking out new content having summary information in common with
previously experienced content.

20. (Original) The system of claim 17, wherein the forming
comprises using snapshots as a bias toward a longer term view of user behavior.

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21. (Original) The system of claim 17, wherein the forming comprises use of non-monotonic logic.

22. (Currently Amended) The system of claim [[17]] 21, wherein the non-monotonic logic comprises modal logic.

23. (Cancelled)

24. (Currently Amended) The method of claim [[23]] 29, wherein facts derived from the relevant user's behavior include a record of one or more of:

- 5 [[*]] play sequence commands;
 [[*]] presence or absence of the user; and
 [[*]] queries.

25. (Currently Amended) The method of claim [[23]] 29, wherein the adaptive personal memory comprises at least some current data and at least some snapshot data, which snapshot data acts as a bias toward a longer term view of user behavior.

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Currently Amended) ~~The A data processing method of claim 28, comprising, with a computer program, executing at least the following operations in a data processing device:~~

- 5 maintaining at least one adaptive personal memory including:
 personal information.

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facts derived from content experienced by at least one relevant user, and

facts derived from the relevant user's behavior;

capturing content and summaries experienced by the relevant user

10 and the relevant user's behaviors;

analyzing the content and behaviors to create updated personal data;

updating the adaptive memory with the updated personal data;

interfacing with the relevant user responsive to the adaptive personal memory and to acquire more data from the relevant user;

15 wherein at least one of the maintaining, analyzing, and updating steps makes use of non-monotonic logic and wherein the non-monotonic logic is modal logic.

30. (Currently Amended) The method of claim [[26]] 29, wherein the operations further comprise forming at least one query, responsive to the adaptive memory, for one or more of: gathering additional content; recommending content; augmenting content, and creating a personal television channel.

31. (Original) The method of claim 30, wherein forming includes use of non-monotonic logic.

32. (Original) The method of claim 31, wherein the non-monotonic logic includes modal logic.

33. (Original) The method of claim 32, wherein the forming comprises using snapshots as a bias toward a longer term view of user behavior.

34. (Currently Amended) ~~At least one medium readable by at least one data processing device and~~ A computer program embodying code for causing the data processing device to perform operations ~~comprising:~~ [[□]] maintaining to maintain at least one adaptive personal memory with information
5 including~~[[o]]~~ personal information, [[:]] [[o]] facts derived from content experienced

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by at least one relevant user, [[;]] and [[o]] facts derived from the relevant user's behavior, the computer program embodying:

- code for capturing content experienced by a relevant user;
- code for capturing the relevant user's behavior;
- 10 code for updating the adaptive personal memory;
- code which periodically creates a snapshot depicting the captured
- relevant user's experienced content and behavior over a preceding period;
- code for analyzing a plurality of the snapshots to develop patterns,
- trends, and tendencies in the relevant user's behavior;
- 15 code for pushing content to the relevant user in accordance with the
- patterns, trends, and tendencies developed from the snapshots.

35. (Currently Amended) The ~~medium~~ computer program of claim 34, wherein ~~facts derived from the captured~~ relevant user's behavior includes a record of one or more of:

- [[•]] play sequence commands;
- 5 [[•]] presence or absence of the user; and
- [[•]] queries.

36. (Currently Amended) The ~~medium~~ computer program of claim 34, wherein the adaptive personal memory comprises at least some current data and at least some snapshot data, which snapshot data acts as a bias toward a longer term view of the relevant user's behavior.

37. (Currently Amended) The ~~method~~ computer program of claim 34 ~~wherein the operations further comprise~~ further including:

- [[•]] code for capturing content and summaries of the content
- experienced by the relevant user and the relevant user's behaviors; and
- 5 [[□]] code for analyzing the captured content and content
- summaries and behaviors to create updated personal data, the updating code [[; □]]
- updating the adaptive memory with the updated personal data.

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38. (Currently Amended) The ~~medium~~ computer program of claim 34, ~~wherein the operations further comprise~~ including:

code for interfacing with the relevant user responsive to the adaptive personal memory and to acquire more data from the relevant user.

39. (Currently Amended) The ~~medium~~ computer program of claim 34, wherein at least one of the ~~maintaining~~, analyzing[[,]] and updating steps codes makes use of non-monotonic logic.

40. (Currently Amended) The ~~medium~~ computer program of claim 39, wherein the non-monotonic logic includes modal logic.

41. (Currently Amended) The ~~medium~~ computer program of claim 34, ~~wherein the operations further comprise~~ including:

code for forming at least one query, responsive to the adaptive memory;[[,]] and

5 code for one or more of: gathering additional content; recommending content; augmenting content, and creating a personal television channel.

42. (Currently Amended) The ~~medium~~ computer program of claim 41, wherein the forming includes code uses [[of]] non-monotonic logic.

43. (Currently Amended) The ~~medium~~ computer program of claim 41, wherein the non-monotonic logic includes modal logic.

44. (Currently Amended) The ~~medium~~ computer program of claim 42, wherein the forming ~~comprises using~~ code interacts with the snapshot[[s]] code to create as a bias toward a longer term view of the relevant user's behavior.